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NATA

LumCAT: 1545-E	
Luminaire: 92.70.044.00	
Report No: NATA0100	Voltage(V): 35.2000
Test No: GC2019011214	Current(A): 0.1500
LampCAT: LUMILEDS LUXEON 1202S	Power (W): 5.2800
Lamp flux(lm): 805.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 21	Width(mm): 21
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 684.24
Efficiency(%): 85.00%
Lumens(lm)/Power(W): 129.64
Central intensity(cd): 1217.672
Maximum intensity(cd): 1217.672
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=31.7
[C90/270]Total=31.7
Field angle(10%Imax): [C0/180]Total=85.5
[C90/270]Total=85.5
Maximum s/h(1/2): C0_180=0.52 C90_270=0.52
Maximum s/h(1/4): C0_180=0.60 C90_270=0.60
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.03%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.774%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1217.672	0.291	0.291	.036%	.043%
1.0	1214.227	2.324	2.615	.289%	.382%
2.0	1203.469	4.606	7.221	.572%	1.055%
3.0	1185.961	6.806	14.027	.846%	2.050%
4.0	1161.141	8.882	22.91	1.103%	3.348%
5.0	1128.776	10.788	33.698	1.340%	4.925%
6.0	1092.361	12.521	46.219	1.555%	6.755%
7.0	1053.914	14.085	60.304	1.750%	8.813%
8.0	1007.902	15.382	75.687	1.911%	11.061%
9.0	956.257	16.404	92.091	2.038%	13.459%
10.0	904.662	17.227	109.318	2.140%	15.977%
11.0	850.697	17.800	127.118	2.211%	18.578%
12.0	798.047	18.195	145.313	2.260%	21.237%
13.0	745.615	18.393	163.707	2.285%	23.925%
14.0	692.149	18.362	182.069	2.281%	26.609%
15.0	646.277	18.343	200.412	2.279%	29.290%
16.0	602.121	18.200	218.612	2.261%	31.950%
17.0	561.023	17.987	236.599	2.234%	34.579%
18.0	523.336	17.734	254.333	2.203%	37.170%
19.0	492.497	17.583	271.917	2.184%	39.740%
20.0	462.459	17.345	289.262	2.155%	42.275%
21.0	434.693	17.083	306.345	2.122%	44.772%
22.0	411.898	16.921	323.265	2.102%	47.245%
23.0	390.973	16.752	340.018	2.081%	49.693%
24.0	369.717	16.491	356.508	2.049%	52.103%
25.0	350.613	16.249	372.757	2.019%	54.478%
26.0	334.216	16.067	388.824	1.996%	56.826%
27.0	317.531	15.808	404.632	1.964%	59.136%
28.0	302.941	15.596	420.228	1.937%	61.416%
29.0	291.916	15.520	435.748	1.928%	63.684%
30.0	280.097	15.358	451.106	1.908%	65.928%
31.0	271.090	15.311	466.417	1.902%	68.166%
32.0	263.074	15.288	481.704	1.899%	70.400%
33.0	254.742	15.215	496.919	1.890%	72.624%
34.0	246.255	15.101	512.02	1.876%	74.831%
35.0	235.427	14.808	526.828	1.840%	76.995%
36.0	222.384	14.334	541.162	1.781%	79.090%
37.0	209.665	13.837	554.999	1.719%	81.112%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	194.984	13.164	568.163	1.635%	83.036%
39.0	179.262	12.371	580.534	1.537%	84.844%
40.0	164.925	11.625	592.16	1.444%	86.543%
41.0	150.138	10.802	602.961	1.342%	88.122%
42.0	133.777	9.816	612.778	1.219%	89.557%
43.0	117.471	8.785	621.563	1.091%	90.841%
44.0	102.347	7.796	629.359	.969%	91.980%
45.0	87.377	6.775	636.135	.842%	92.970%
46.0	73.167	5.772	641.907	.717%	93.814%
47.0	59.070	4.737	646.644	.589%	94.506%
48.0	46.772	3.812	650.456	.473%	95.063%
49.0	35.641	2.950	653.405	.366%	95.494%
50.0	27.281	2.292	655.697	.285%	95.829%
51.0	21.572	1.838	657.536	.228%	96.098%
52.0	18.675	1.614	659.149	.200%	96.334%
53.0	17.430	1.527	660.676	.190%	96.557%
54.0	16.748	1.486	662.162	.185%	96.774%
55.0	16.080	1.444	663.606	.179%	96.985%
56.0	15.349	1.395	665.002	.173%	97.189%
57.0	14.231	1.309	666.311	.163%	97.380%
58.0	12.459	1.159	667.469	.144%	97.550%
59.0	10.371	0.975	668.444	.121%	97.692%
60.0	8.648	0.821	669.265	.102%	97.812%
61.0	7.024	0.674	669.939	.084%	97.911%
62.0	6.546	0.634	670.573	.079%	98.003%
63.0	6.356	0.621	671.194	.077%	98.094%
64.0	6.173	0.608	671.802	.076%	98.183%
65.0	6.005	0.597	672.399	.074%	98.270%
66.0	5.871	0.588	672.987	.073%	98.356%
67.0	5.738	0.579	673.567	.072%	98.441%
68.0	5.611	0.570	674.137	.071%	98.524%
69.0	5.505	0.564	674.701	.070%	98.607%
70.0	5.414	0.558	675.259	.069%	98.688%
71.0	5.302	0.550	675.808	.068%	98.768%
72.0	5.210	0.543	676.352	.068%	98.848%
73.0	5.126	0.538	676.889	.067%	98.926%
74.0	4.999	0.527	677.416	.065%	99.003%
75.0	4.894	0.518	677.935	.064%	99.079%

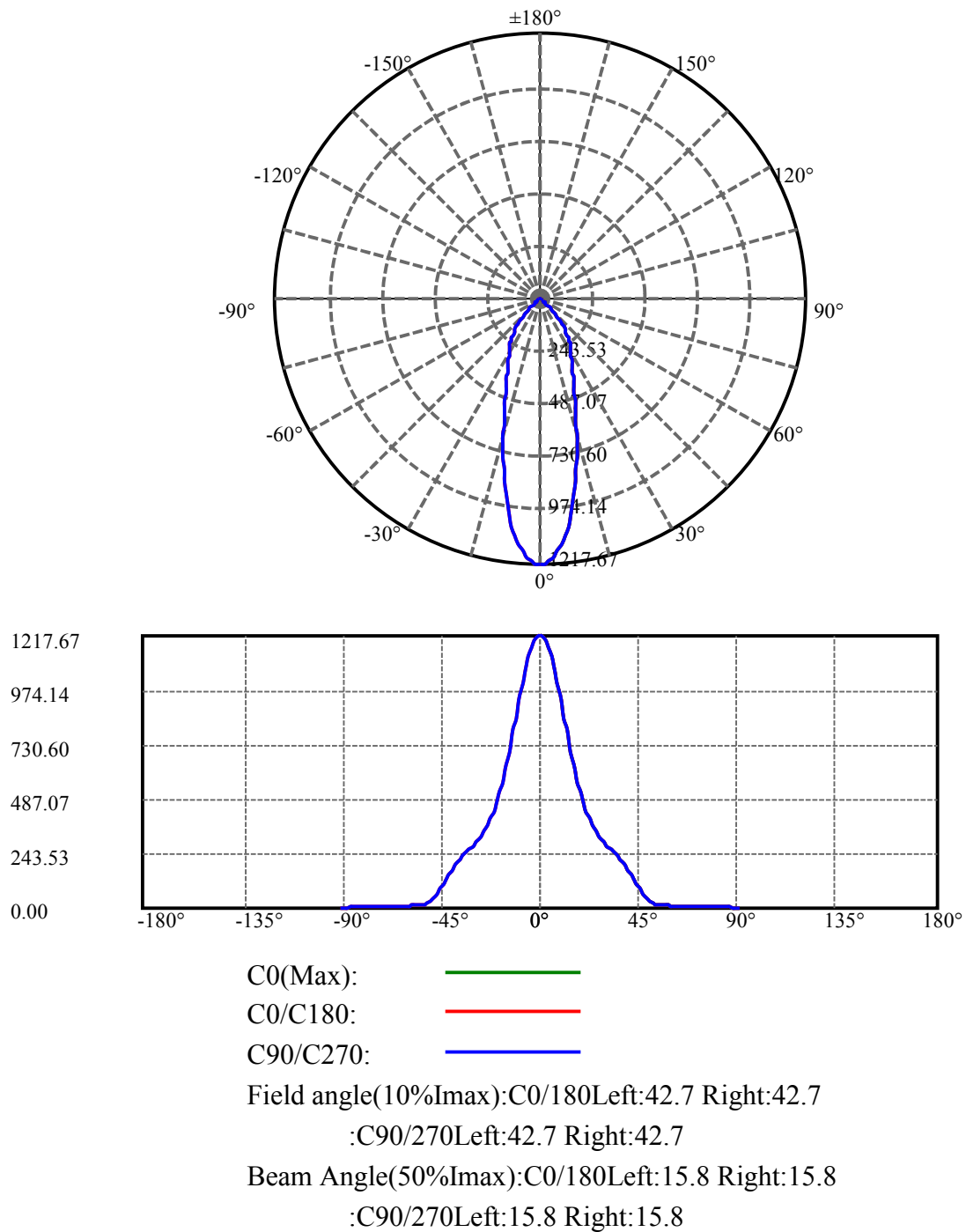
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.781	0.509	678.443	.063%	99.154%
77.0	4.697	0.502	678.945	.062%	99.227%
78.0	4.570	0.490	679.435	.061%	99.299%
79.0	4.465	0.481	679.916	.060%	99.369%
80.0	4.338	0.469	680.385	.058%	99.437%
81.0	4.233	0.458	680.843	.057%	99.504%
82.0	4.141	0.450	681.293	.056%	99.570%
83.0	4.043	0.440	681.733	.055%	99.634%
84.0	3.959	0.432	682.165	.054%	99.697%
85.0	3.902	0.426	682.591	.053%	99.760%
86.0	3.804	0.416	683.007	.052%	99.820%
87.0	3.684	0.403	683.41	.050%	99.879%
88.0	3.459	0.379	683.79	.047%	99.935%
89.0	2.742	0.301	684.09	.037%	99.979%
90.0	2.644	0.145	684.235	.018%	100.000%

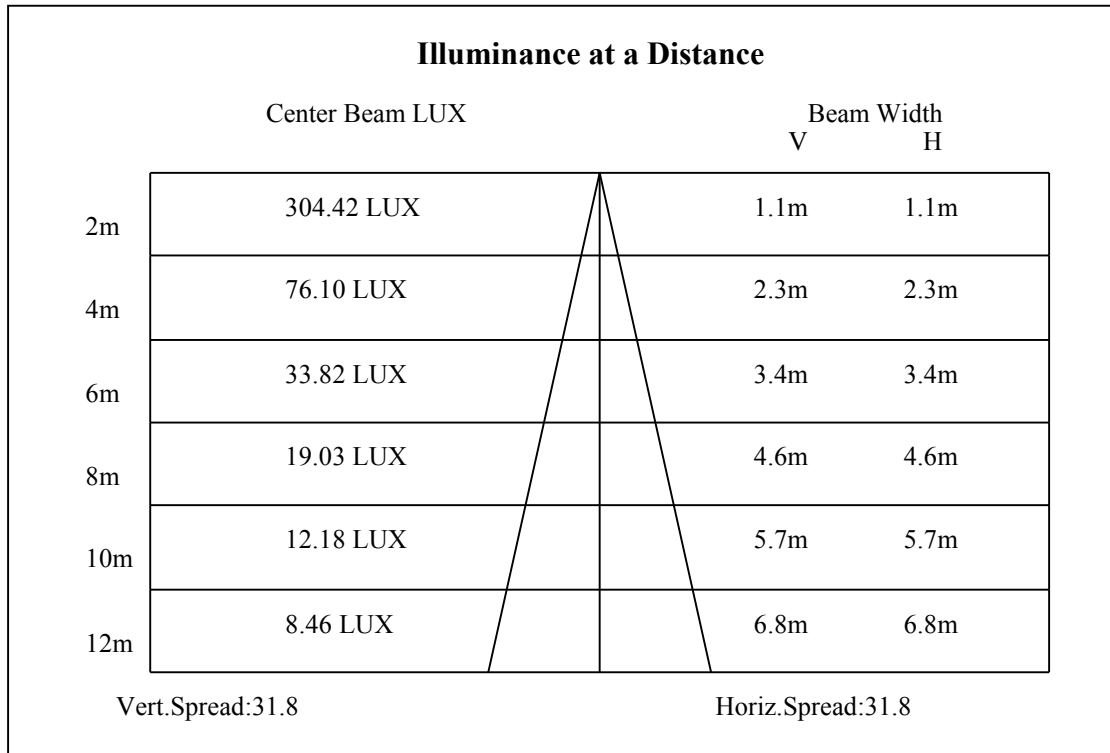
ZONAL LUMEN SUMMARY

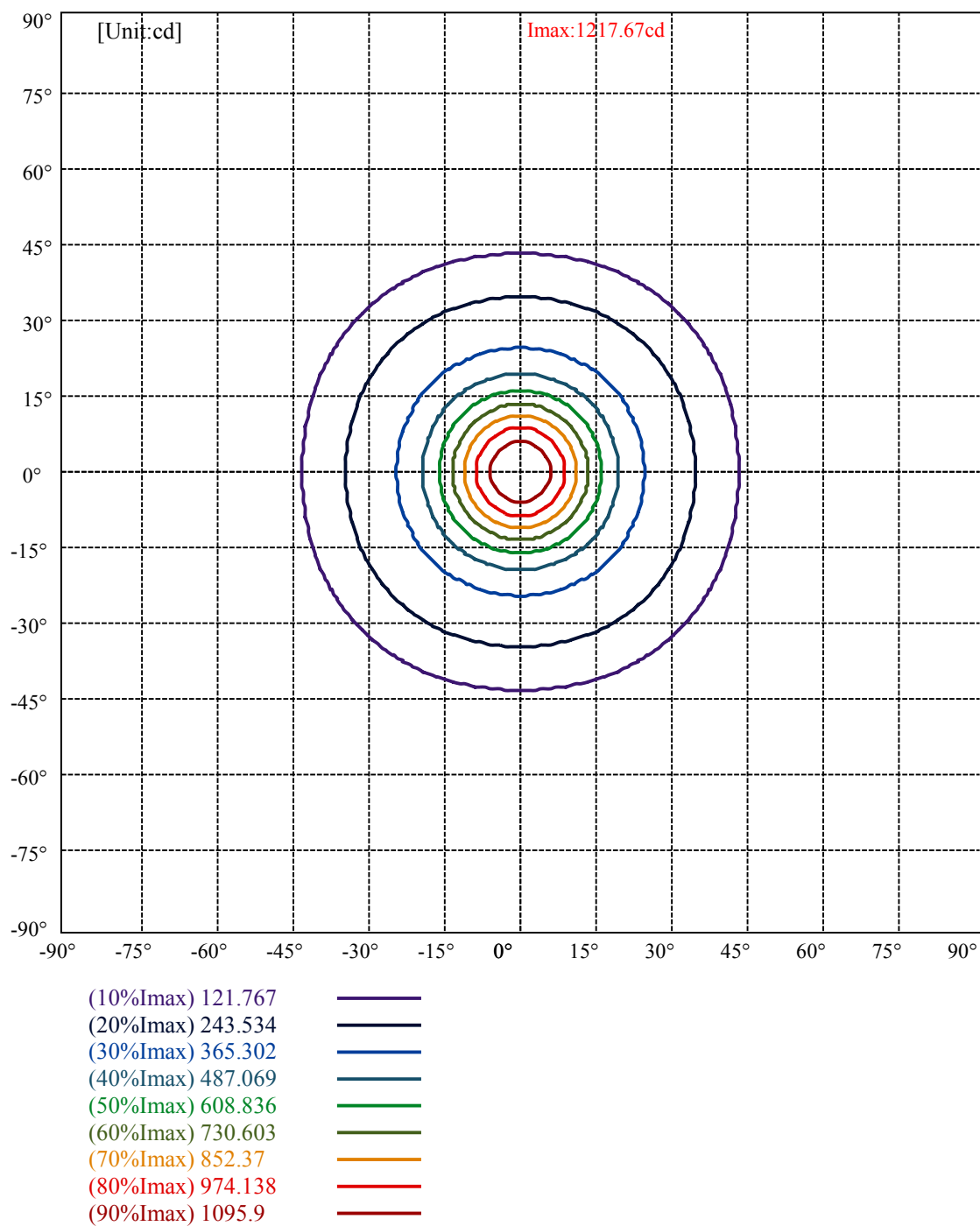
Zone	Lumens	%Lamp	%Fixt
0-30	451.11	56.04%	65.93%
0-40	592.16	73.56%	86.54%
0-60	669.27	83.14%	97.81%
0-90	684.09	84.98%	99.98%
0-120	684.09	84.98%	99.98%
0-180	684.24	85.00%	100.00%
60-90	15.65	1.94%	2.29%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-36.45	547.39	68.00%	80.00%

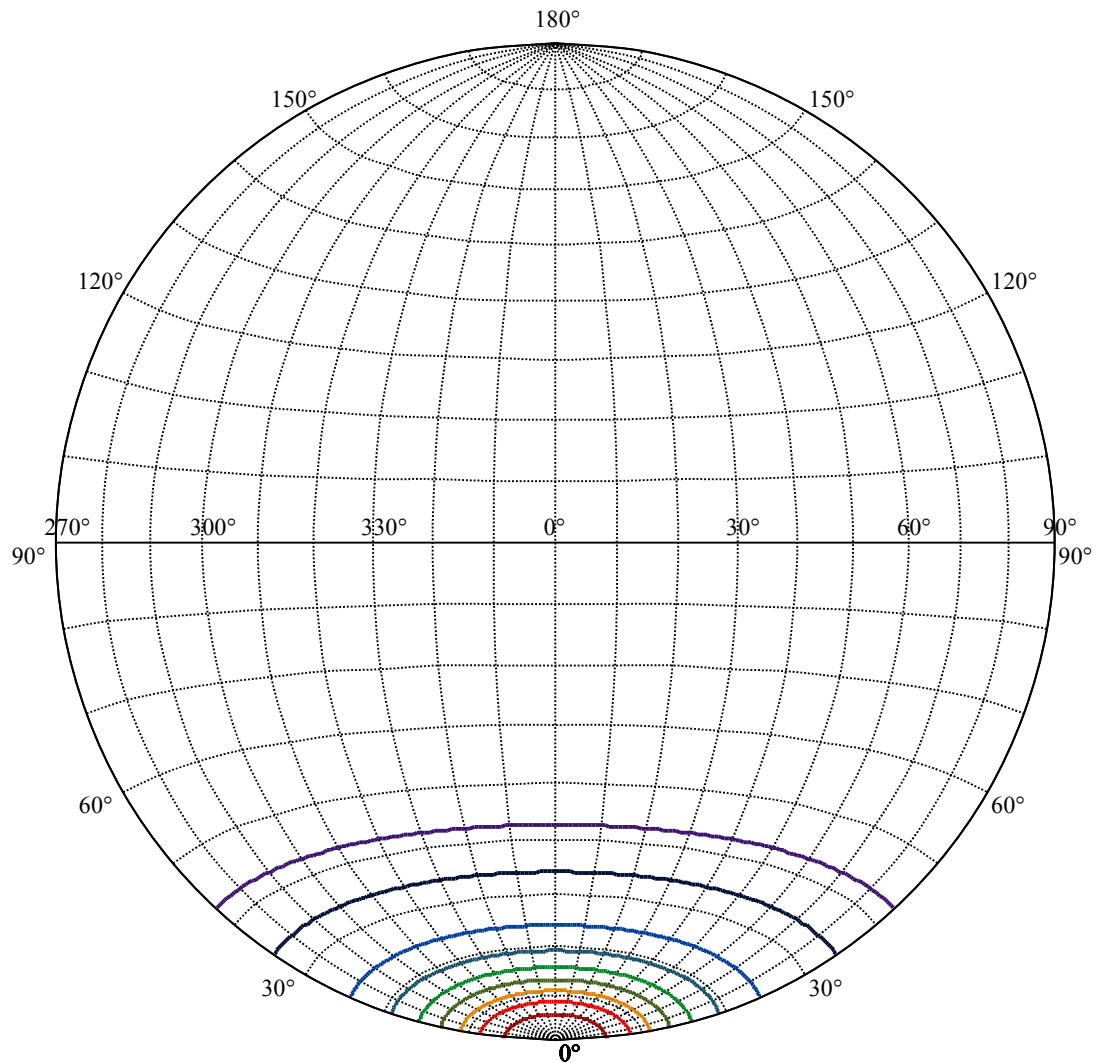
ZONAL LUMEN SUMMARY

0-10	109.32
10-20	179.94
20-30	161.84
30-40	141.05
40-50	63.54
50-60	13.57
60-70	5.99
70-80	5.13
80-90	3.71
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00







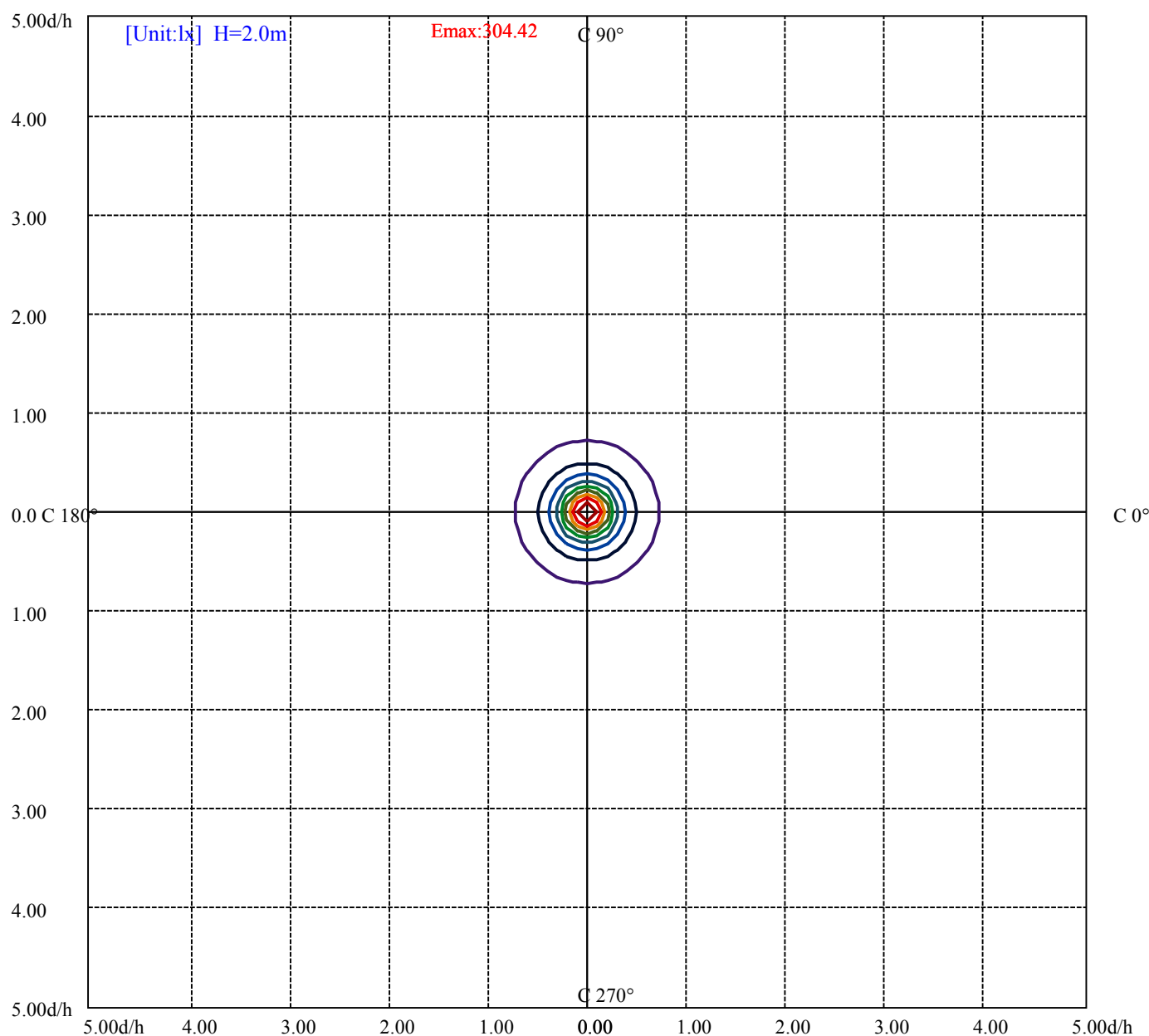


House

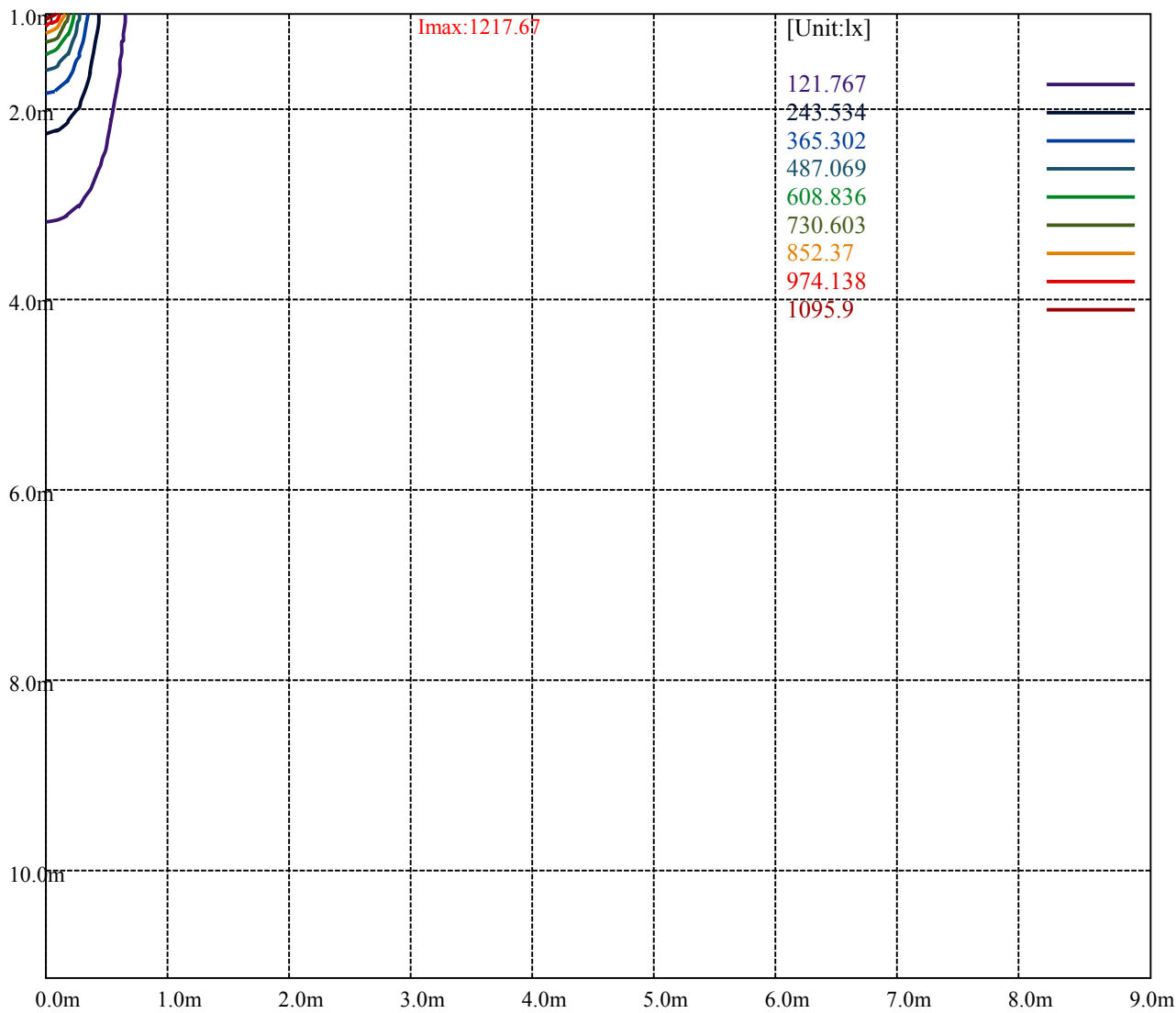
[Unit:cd]

Road

I_{max}:1217.67(10%I_{max}) 121.767(20%I_{max}) 243.534(30%I_{max}) 365.302(40%I_{max}) 487.069(50%I_{max}) 608.836(60%I_{max}) 730.603(70%I_{max}) 852.37(80%I_{max}) 974.138(90%I_{max}) 1095.9



(10%Emax)	30.44175	
(20%Emax)	60.8835	
(30%Emax)	91.32525	
(40%Emax)	121.7673	
(50%Emax)	152.209	
(60%Emax)	182.6508	
(70%Emax)	213.0925	
(80%Emax)	243.5343	
(90%Emax)	273.975	



Luminance Table

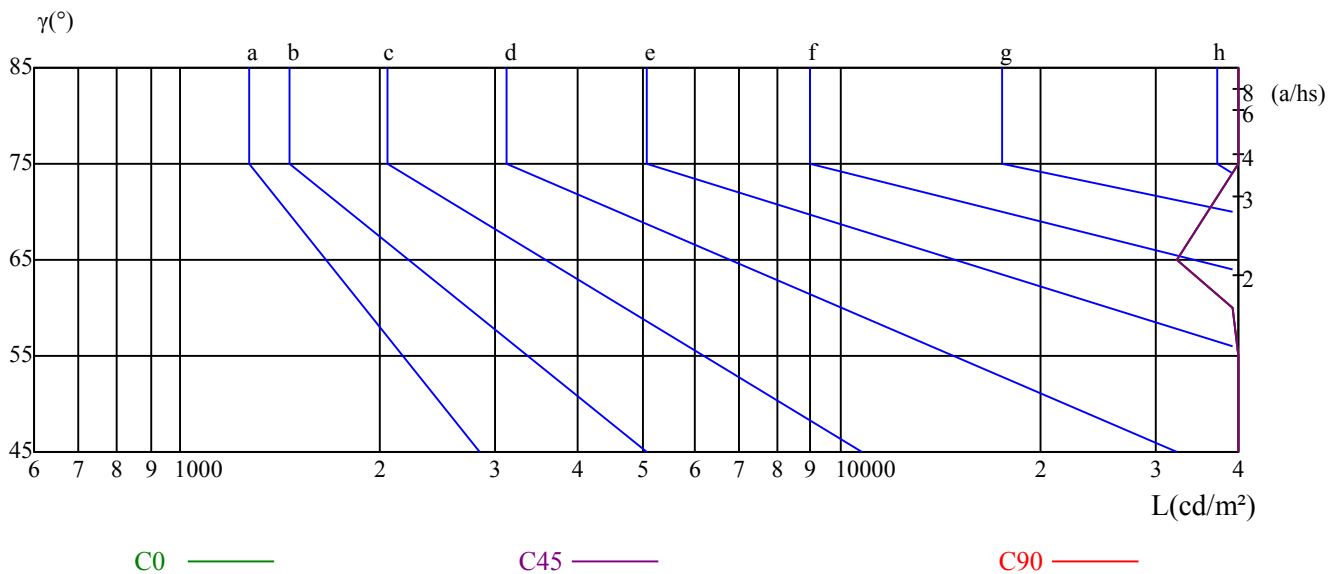
γ	45	50	55	60	65	70	75	80	85
C0	280205	96241	63572	39222	32218	35895	42875	56651	101529
C45	280205	96241	63572	39222	32218	35895	42875	56651	101529
C90	280205	96241	63572	39222	32218	35895	42875	56651	101529

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
32218	32218	32218	42875	42875	42875	101529	101529	101529

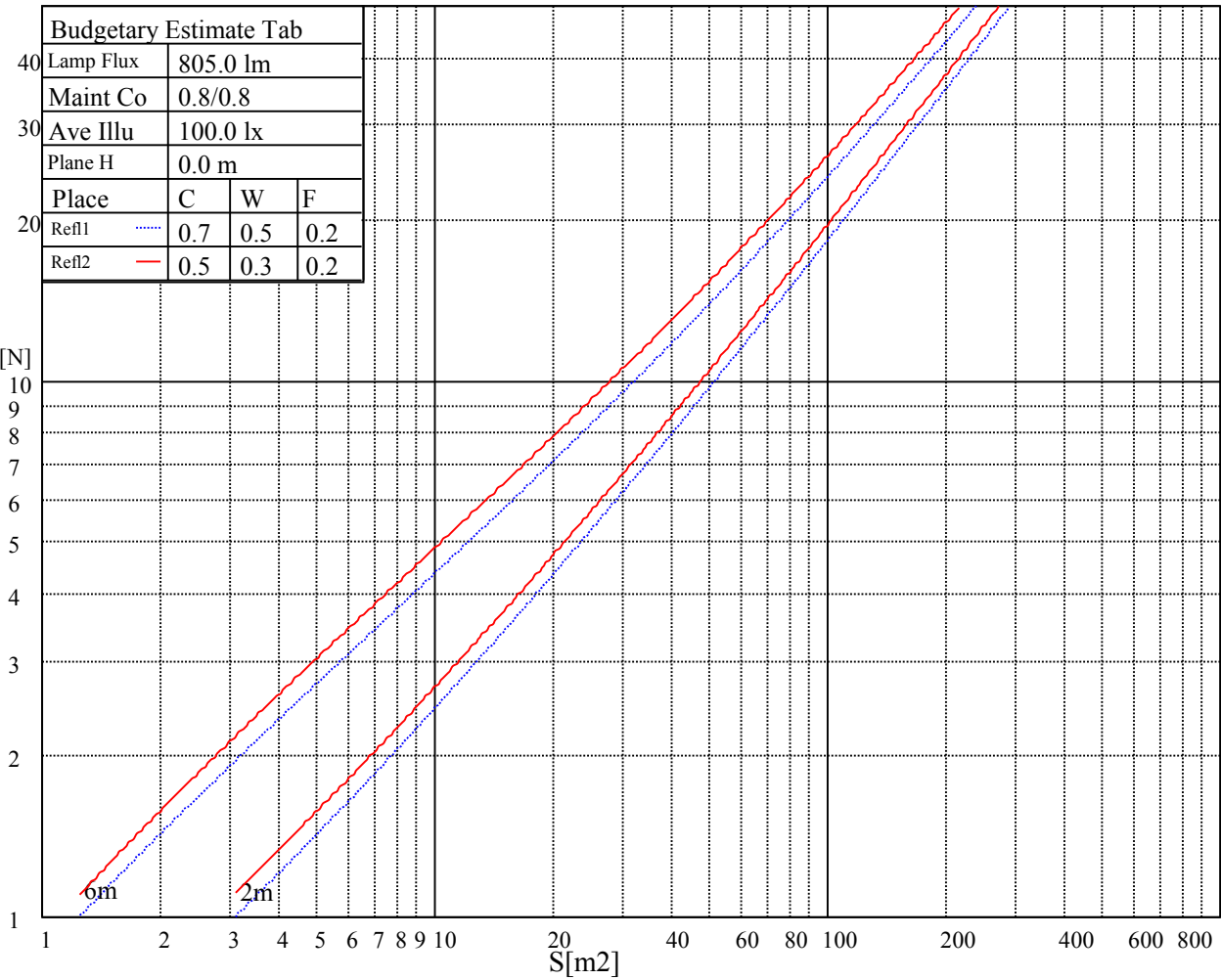
Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

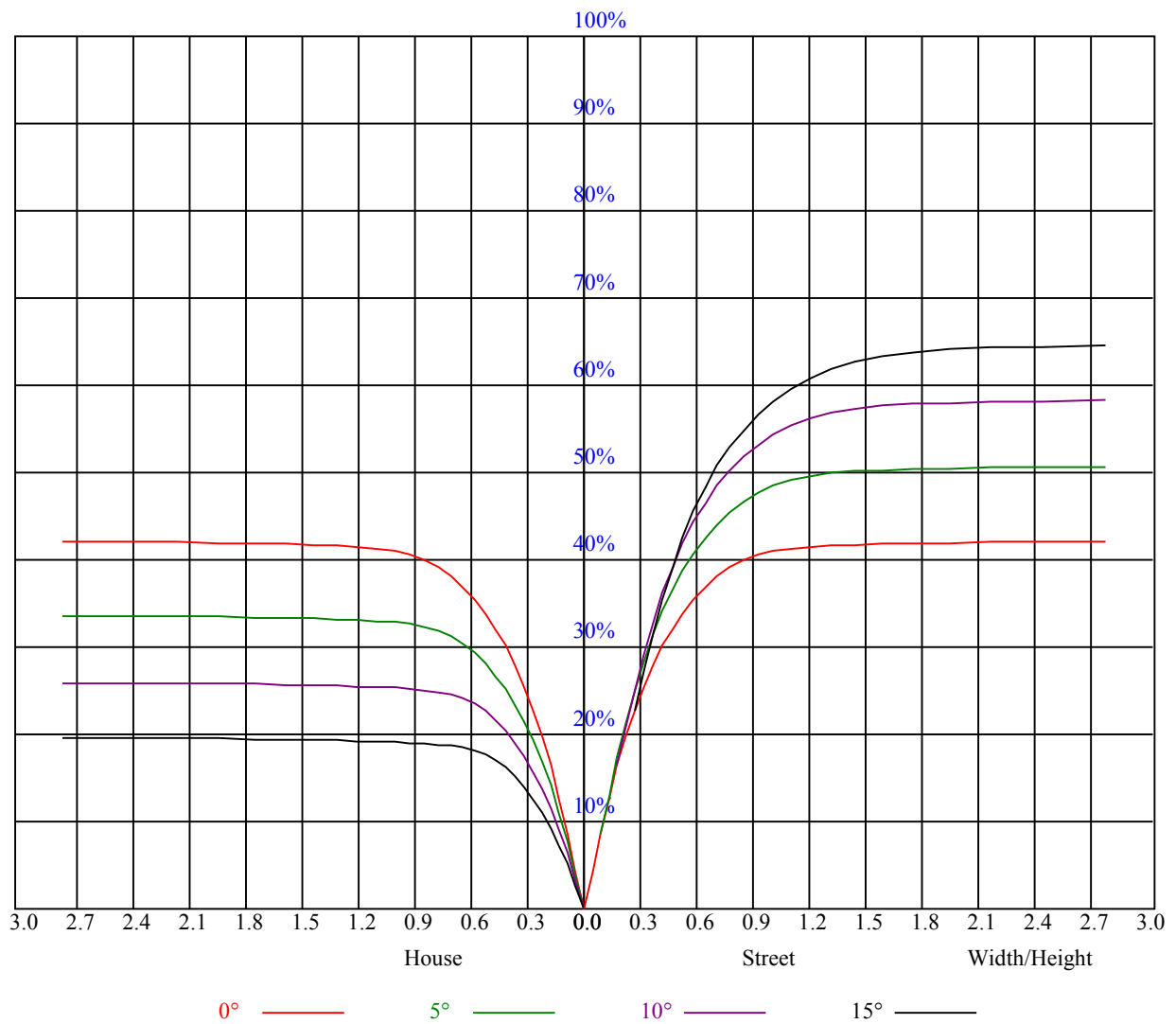
Luminance Limiting Curve



Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	20.26	21.34	20.63	21.65	21.96	20.04	21.12	20.41	21.43	21.75
	3H	21.31	22.26	21.70	22.59	22.96	21.00	21.95	21.38	22.28	22.65
	4H	22.05	22.92	22.45	23.28	23.67	21.73	22.60	22.13	22.96	23.35
	6H	22.96	23.77	23.38	24.14	24.54	22.70	23.51	23.12	23.88	24.28
	8H	23.51	24.27	23.95	24.66	25.07	23.30	24.06	23.74	24.45	24.86
	12H	24.51	25.23	24.95	25.62	26.05	24.39	25.12	24.83	25.50	25.93
4H	2H	20.36	21.24	20.77	21.59	21.98	20.17	21.04	20.57	21.40	21.79
	3H	21.77	22.48	22.18	22.89	23.29	21.49	22.21	21.91	22.61	23.02
	4H	22.74	23.38	23.18	23.80	24.25	22.47	23.11	22.91	23.53	23.98
	6H	23.80	24.34	24.27	24.79	25.27	23.58	24.12	24.05	24.57	25.05
	8H	24.52	25.04	25.00	25.49	25.96	24.36	24.87	24.83	25.32	25.79
	12H	25.61	26.06	26.10	26.55	27.02	25.53	25.98	26.02	26.46	26.94
8H	4H	23.11	23.62	23.58	24.07	24.54	22.88	23.39	23.35	23.84	24.31
	6H	24.47	24.88	24.97	25.38	25.86	24.30	24.71	24.81	25.21	25.70
	8H	25.39	25.76	25.92	26.28	26.78	25.28	25.65	25.81	26.17	26.67
	12H	26.76	27.08	27.28	27.58	28.16	26.70	27.02	27.22	27.52	28.10
12H	4H	23.19	23.64	23.68	24.12	24.60	22.97	23.42	23.46	23.90	24.38
	6H	25.02	25.03	25.20	25.50	26.05	24.87	24.88	25.04	25.35	25.90
	8H	25.72	26.04	26.24	26.54	27.12	25.62	25.94	26.14	26.44	27.02
Variation with the observer position at spacings:											
S = 1.0H		2.7/-6.0					2.7/-6.0				
S = 1.5H		4.6/-5.7					4.6/-5.7				
S = 2.0H		6.3/-4.8					6.3/-4.8				
Standard tables:		BK2					BK2				
Uncorrected UGR		9.9					9.9				



RHOC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.94	0.91	0.89	0.92	0.90	0.88	0.88	0.87	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79
2	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.74	0.73
3	0.81	0.77	0.73	0.80	0.76	0.73	0.78	0.74	0.71	0.75	0.73	0.70	0.74	0.71	0.69	0.68
4	0.76	0.71	0.67	0.75	0.70	0.67	0.73	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.64	0.63
5	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.60	0.59
6	0.67	0.61	0.58	0.66	0.61	0.58	0.65	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.56	0.55
7	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.53	0.59	0.56	0.53	0.52
8	0.59	0.54	0.51	0.59	0.54	0.51	0.58	0.54	0.50	0.57	0.53	0.50	0.56	0.53	0.50	0.49
9	0.56	0.51	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.54	0.50	0.47	0.53	0.50	0.47	0.46
10	0.53	0.48	0.45	0.53	0.48	0.45	0.52	0.48	0.45	0.52	0.48	0.45	0.51	0.47	0.45	0.44



NATA 1545-E

Intensity data(cd)										Appendix Page: 17 Total:19	
C/ γ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0		
0.0	1217.25	1222.31	1218.94	1209.38	1191.94	1164.38	1135.13	1094.06	1051.88		
45.0	1218.94	1213.31	1199.25	1181.81	1158.19	1121.63	1086.19	1045.69	996.19		
90.0	1215.00	1202.63	1184.06	1157.06	1119.21	1086.13	1037.98	994.95	948.43		
135.0	1219.50	1207.69	1187.44	1165.50	1135.13	1099.13	1062.00	1015.88	972.00		
180.0	1217.25	1205.44	1187.44	1157.63	1121.23	1092.43	1046.42	1004.46	958.84		
225.0	1218.94	1217.25	1207.13	1191.38	1169.44	1119.77	1103.34	1064.64	1014.64		
270.0	1215.00	1222.31	1222.31	1216.13	1200.94	1176.75	1149.75	1122.75	1074.38		
315.0	1219.50	1222.88	1221.19	1208.81	1193.06	1170.00	1118.08	1088.89	1046.87		
360.0	1217.25	1222.31	1218.94	1209.38	1191.94	1164.38	1135.13	1094.06	1051.88		
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0		
0.0	1001.25	947.25	894.38	842.06	777.38	727.88	680.06	623.81	582.19		
45.0	941.06	890.44	831.94	780.19	723.38	669.38	624.38	578.25	537.75		
90.0	891.96	835.54	785.76	729.90	682.65	633.04	587.42	550.24	511.59		
135.0	920.25	865.69	817.88	768.94	710.44	667.69	626.63	579.38	545.06		
180.0	899.44	852.69	806.46	747.96	708.69	660.38	611.49	579.71	545.68		
225.0	976.16	922.78	860.96	817.71	768.21	702.79	664.03	620.94	581.74		
270.0	1024.88	983.25	920.81	869.63	817.88	754.88	706.50	659.25	604.69		
315.0	995.06	939.66	887.40	828.00	776.31	721.18	669.71	625.39	579.49		
360.0	1001.25	947.25	894.38	842.06	777.38	727.88	680.06	623.81	582.19		
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0		
0.0	546.75	511.31	479.81	455.63	430.31	407.81	389.81	370.13	354.38		
45.0	505.13	475.31	442.13	419.06	397.69	376.88	356.06	339.75	322.88		
90.0	476.66	449.44	424.58	396.62	376.93	357.53	337.78	319.44	304.59		
135.0	511.88	478.69	448.88	424.69	396.56	378.00	353.81	333.56	318.38		
180.0	503.38	479.87	453.66	419.29	399.77	378.96	357.36	337.22	321.02		
225.0	538.48	507.04	478.41	447.69	425.36	404.38	382.50	361.86	344.59		
270.0	566.44	532.13	493.88	466.88	442.13	417.94	394.88	376.31	356.63		
315.0	537.98	506.19	478.35	447.69	426.43	406.29	385.54	366.64	351.28		
360.0	546.75	511.31	479.81	455.63	430.31	407.81	389.81	370.13	354.38		
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0		
0.0	336.38	319.50	307.69	295.88	285.75	284.63	269.21	258.24	246.09		
45.0	307.69	295.31	284.63	273.04	264.54	257.01	249.92	238.67	226.18		
90.0	290.08	277.76	268.65	259.20	252.00	244.13	235.18	226.18	215.04		
135.0	302.06	288.56	284.63	269.04	259.31	251.78	246.04	239.34	227.93		
180.0	305.21	290.70	280.63	271.58	263.08	255.77	250.31	243.28	233.16		
225.0	327.04	310.44	297.84	286.03	276.64	266.96	258.81	252.23	244.18		
270.0	338.63	322.31	306.56	294.19	284.06	269.38	261.73	253.41	243.28		
315.0	333.17	318.94	304.71	291.83	283.33	274.95	266.74	258.69	247.56		
360.0	336.38	319.50	307.69	295.88	285.75	284.63	269.21	258.24	246.09		
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0		
0.0	232.31	218.42	201.09	185.01	170.83	152.27	134.55	119.70	101.53		
45.0	213.64	200.25	183.26	169.54	154.63	139.67	121.11	106.59	91.07		
90.0	199.58	187.65	174.54	157.61	143.61	129.94	113.85	98.49	85.67		
135.0	216.28	204.19	189.39	175.28	160.76	147.26	131.79	115.26	100.13		
180.0	222.98	208.80	197.21	182.98	167.12	152.83	139.95	120.88	106.59		
225.0	230.63	219.15	205.76	190.46	175.16	161.55	145.29	128.64	114.02		
270.0	232.59	221.57	205.37	191.87	179.04	163.74	147.88	133.54	117.17		
315.0	231.08	217.29	203.23	181.35	168.24	153.84	135.79	116.66	102.60		
360.0	232.31	218.42	201.09	185.01	170.83	152.27	134.55	119.70	101.53		

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Intensity data(cd)										Appendix Page: 18 Total:19	
C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	85.73	72.39	56.76	45.11	33.36	25.99	21.32	19.29	18.90		
45.0	76.95	62.66	52.20	40.28	31.05	26.27	22.11	20.98	20.08		
90.0	71.21	59.12	47.48	36.84	29.98	24.69	20.93	20.03	18.90		
135.0	86.01	72.11	58.50	47.14	33.69	25.14	19.80	17.04	16.26		
180.0	93.60	77.12	61.14	49.28	35.94	26.21	19.91	16.14	15.47		
225.0	97.93	83.70	68.12	54.06	43.37	32.01	24.24	19.24	16.59		
270.0	101.08	87.02	71.49	57.99	44.94	33.47	25.65	20.42	17.44		
315.0	86.51	71.21	56.87	43.48	32.79	24.47	18.62	16.26	15.81		
360.0	85.73	72.39	56.76	45.11	33.36	25.99	21.32	19.29	18.90		
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	18.68	18.34	17.66	16.88	16.09	14.06	9.17	6.86	6.69		
45.0	19.41	18.06	17.66	15.98	13.22	9.11	7.20	6.92	6.81		
90.0	17.16	16.37	14.57	12.26	8.55	7.37	6.86	6.53	6.30		
135.0	15.86	15.36	14.91	13.56	11.03	6.75	6.24	5.96	5.74		
180.0	15.41	14.96	14.12	13.05	10.80	7.99	6.47	6.13	5.91		
225.0	15.24	14.79	14.12	13.44	12.71	11.98	9.90	6.75	6.47		
270.0	16.82	15.75	15.19	14.68	14.06	13.16	12.21	9.84	7.59		
315.0	15.41	15.02	14.57	14.01	13.22	12.54	11.14	7.20	6.86		
360.0	18.68	18.34	17.66	16.88	16.09	14.06	9.17	6.86	6.69		
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	6.58	6.41	6.19	6.02	5.91	5.79	5.74	5.63	5.51		
45.0	6.69	6.58	6.53	6.36	6.30	6.19	6.13	6.02	5.91		
90.0	6.08	5.85	5.68	5.51	5.40	5.23	5.18	5.06	4.95		
135.0	5.51	5.29	5.12	4.95	4.78	4.67	4.56	4.44	4.28		
180.0	5.68	5.40	5.18	5.06	4.89	4.78	4.67	4.61	4.50		
225.0	6.24	6.13	6.02	5.96	5.85	5.79	5.68	5.68	5.63		
270.0	7.43	7.26	7.03	6.98	6.81	6.58	6.41	6.30	6.13		
315.0	6.64	6.47	6.30	6.13	5.96	5.85	5.68	5.57	5.51		
360.0	6.58	6.41	6.19	6.02	5.91	5.79	5.74	5.63	5.51		
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	5.40	5.40	5.23	5.12	5.01	4.89	4.84	4.73	4.61		
45.0	5.85	5.79	5.63	5.46	5.34	5.18	4.84	4.73	4.61		
90.0	4.89	4.78	4.73	4.56	4.44	4.33	4.22	4.11	3.94		
135.0	4.28	4.16	4.05	3.99	3.88	3.77	3.71	3.66	3.54		
180.0	4.39	4.39	4.33	4.39	4.39	4.39	4.28	4.22	4.11		
225.0	5.51	5.40	5.29	5.12	4.95	4.89	4.67	4.56	4.39		
270.0	5.96	5.79	5.57	5.40	5.23	5.12	5.06	4.89	4.78		
315.0	5.40	5.29	5.18	5.12	5.01	5.01	4.95	4.84	4.73		
360.0	5.40	5.40	5.23	5.12	5.01	4.89	4.84	4.73	4.61		
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	4.50	4.44	4.33	4.22	4.11	3.99	3.88	3.83	2.70		
45.0	4.39	4.28	4.16	4.11	4.16	4.05	3.66	3.26	2.76		
90.0	3.83	3.71	3.66	3.49	3.43	3.26	3.21	3.15	2.59		
135.0	3.54	3.49	3.38	3.38	3.32	3.26	3.26	3.21	2.81		
180.0	3.99	3.88	3.83	3.83	3.77	3.71	3.71	3.66	2.70		
225.0	4.33	4.22	4.11	3.94	3.83	3.71	3.60	3.54	2.76		
270.0	4.61	4.56	4.44	4.28	4.22	4.16	4.05	3.94	2.87		
315.0	4.67	4.56	4.44	4.44	4.39	4.28	4.11	3.09	2.76		
360.0	4.50	4.44	4.33	4.22	4.11	3.99	3.88	3.83	2.70		

Intensity data(cd)

Appendix Page: 19 Total:19

C/ $\gamma(^{\circ})$	90.0
0.0	2.70
45.0	2.64
90.0	2.59
135.0	2.53
180.0	2.59
225.0	2.64
270.0	2.70
315.0	2.76
360.0	2.70